AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

Claims 1-19. (Canceled)

20. (Currently Amended) A method of generating a transport stream, comprising:

reproducing, from a recording medium, an MPEG transport stream composed of a series of transport packets carrying data; and

~~selectively~~ inserting, into the reproduced MPEG transport stream, program managing information for managing presentation of certain data carried in the reproduced MPEG transport stream when a discontinuity occurs in the MPEG transport stream.

21. (Previously presented) The method of claim 20, wherein the inserting step includes:

generating the program managing information in the form of a transport packet, and

inserting the generated transport packet into the reproduced MPEG transport stream.

22. (Previously presented) The method of claim 21, wherein the generated transport packet is inserted between two points in the reproduced MPEG transport stream.

23. (Previously presented) The method of claim 22, wherein there are no audio/video transport packets between the two points in the reproduced MPEG transport stream.

24. (Previously presented) The method of claim 21, wherein the generated transport packet is inserted between two of the transport packets existing in the reproduced MPEG transport stream.

25. (Previously presented) The method of claim 20, wherein in the reproducing step, the recording medium is an optical disc.

26. (Previously presented) The method of claim 20, wherein in the reproducing step, the MPEG transport stream is an MPEG-2 transport stream.

27. (Previously presented) The method of claim 21, wherein the inserting step is performed within an optical disc player.

28. (Previously presented) The method of claim 27, wherein the reproducing step is performed by the optical disc player.

29. (Previously presented) The method of claim 20, further comprising:

transmitting, through a digital interface, the MPEG transport stream having the program managing information inserted therein.

30. (Currently Amended) A method of generating a transport stream, comprising:

recording, on a recording medium, an MPEG transport stream composed of a series of transport packets carrying data;

reproducing, from the recording medium, the recorded MPEG transport stream; and

~~selectively~~ inserting, into the reproduced MPEG transport stream, program managing information for managing presentation of certain data carried in the reproduced MPEG transport stream when a discontinuity occurs in the MPEG transport stream.

31. (Previously presented) The method of claim 30, wherein the inserting step includes:

generating the program managing information in the form of a transport packet, and

inserting the generated transport packet into the reproduced MPEG transport stream.

32. (Previously presented) The method of claim 31, wherein the generated transport packet is inserted between two points in the reproduced MPEG transport stream where there are no audio/video transport packets between the two points.

33. (Previously presented) The method of claim 31, wherein the generated transport packet is inserted between two of the transport packets existing in the reproduced MPEG transport stream.

34. (Previously presented) The method of claim 30, wherein in the reproducing step, the recording medium is an optical disc.

35. (Previously presented) The method of claim 31, wherein the inserting step is performed within an optical disc player.

36. (Previously presented) The method of claim 35, wherein the reproducing steps is performed by the optical disc player.

37. (Previously presented) The method of claim 30, further comprising:

transmitting, through a digital interface, the MPEG transport stream having the program managing information inserted therein.

38. (Currently Amended) An apparatus for generating a transport stream, comprising:

a reproducing part to reproduce, from a recording medium, an MPEG transport stream composed of a series of transport packets carrying data, and to ~~selectively~~ insert, into the reproduced MPEG transport stream, program managing information for managing presentation of certain data carried in the reproduced MPEG transport stream when a discontinuity occurs in the MPEG transport stream.

39. (Previously presented) The apparatus of claim 38, wherein the reproducing part generates the program managing information in the form of a transport packet, and inserts the generated transport packet into the reproduced MPEG transport stream.

40. (Previously presented) The apparatus of claim 39, wherein the reproducing part inserts the generated transport packet between two points in the reproduced MPEG transport stream.

41. (Previously presented) The apparatus of claim 40, wherein there are no audio/video transport packets between the two points in the reproduced MPEG transport stream.

42. (Previously presented) The apparatus of claim 39, wherein the reproducing part inserts the generated transport packet between two of the transport packets existing in the reproduced MPEG transport stream.

43. (Previously presented) The apparatus of claim 38, wherein the recording medium is an optical disc.

44. (Previously presented) The apparatus of claim 38, wherein the MPEG transport stream is an MPEG-2 transport stream.

45. (Previously presented) The apparatus of claim 39, wherein the apparatus is an optical disc player.

46. (Previously presented) The apparatus of claim 38, further comprising:

a digital interface to transmit the MPEG transport stream having the program managing information inserted therein.

47. (Currently Amended) An apparatus for generating a transport stream, comprising:

a recording/reproducing part to record, on a recording medium, an MPEG transport stream composed of a series of transport packets carrying data; to reproduce, from the recording medium, the recorded MPEG transport stream; and to ~~selectively~~ insert, into the reproduced MPEG transport stream, program managing information for managing presentation of certain data carried in the reproduced MPEG transport stream when a discontinuity occurs in the MPEG transport stream.

48. (Previously presented) The apparatus of claim 47, wherein the recording/reproducing part generates the program managing information in the form of a transport packet, and inserts the generated transport packet into the reproduced MPEG transport stream.

49. (Previously presented) The apparatus of claim 48, wherein the generated transport packet is inserted between two points in the reproduced MPEG transport stream where there are no audio/video transport packets between the two points.

50. (Previously presented) The apparatus of claim 48, wherein the generated transport packet is inserted between two of the transport packets existing in the reproduced MPEG transport stream.

51. (Previously presented) The apparatus of claim 47, wherein the recording medium is an optical disc.

52. (Previously presented) The apparatus of claim 47, further comprising:

a digital interface to transmit the MPEG transport stream having the program managing information inserted therein.

53. (Currently Amended) An apparatus for generating a transport stream, comprising:

means for reproducing, from a recording medium, an MPEG transport stream composed of a series of transport packets carrying data; and

means for ~~selectively~~ inserting, into the reproduced MPEG transport stream, program managing information for managing presentation of certain data carried in the reproduced MPEG transport stream when a discontinuity occurs in the MPEG transport stream.

54. (Currently Amended) An apparatus for generating a transport stream, comprising:

means for recording, on a recording medium, an MPEG transport stream composed of a series of transport packets carrying data;

means for reproducing, from the recording medium, the recorded MPEG transport stream; and

means for ~~selectively~~ inserting, into the reproduced MPEG transport stream, program managing information for managing presentation of certain data carried in the reproduced MPEG transport stream when a discontinuity occurs in the MPEG transport stream.

55. (New) The method of claim 20, further comprising:

detecting a null time interval in the MPEG transport stream, said null time interval corresponding to said discontinuity,

wherein the inserting step inserts the program managing information into the detected null time interval.

56. (New) The method of claim 30, further comprising:

detecting a null time interval in the MPEG transport stream, said null time interval corresponding to said discontinuity,

wherein the inserting step inserts the program managing information into the detected null time interval.

57. (New) The apparatus of claim 38, further comprising:

a detecting part configured to detect a null time interval in the MPEG transport stream, said null time interval corresponding to said discontinuity,

wherein the reproducing part inserts the program managing information into the detected null time interval.

58. (New) The apparatus of claim 47, further comprising:

a detecting part configured to detect a null time interval in the MPEG transport stream, said null time interval corresponding to said discontinuity,

wherein the recording/reproducing part inserts the program managing information into the detected null time interval.

59. (New) The apparatus of claim 53, further comprising:

means for detecting a null time interval in the MPEG transport stream, said null time interval corresponding to said discontinuity,

wherein the means for inserting inserts the program managing information into the detected null time interval.

60. (New) The apparatus of claim 54, further comprising:

means for detecting a null time interval in the MPEG transport stream, said null time interval corresponding to said discontinuity,

wherein the means for inserting inserts the program managing information into the detected null time interval.